

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Total Maximum Daily Load Information Sheet

Jenkins Creek

Water Body ID: 3207 and 3208

Water Body Segment at a Glance:

County: Jasper and Newton
Nearby City: Fidelity
Segment Length: 2.8 miles (3207)
4.8 miles (3208)
Pollutant: Bacteria
Source: Rural nonpoint sources



Statewide Map Showing Location of Watershed

Schedule for TMDL development:

TMDL development schedules are subject to change.

The most current schedule for TMDL development is available on the department's website at dnr.mo.gov/env/wpp/tmdl/wpc-tmdl-progress.htm

Description of the Problem

A water body is considered impaired when it fails to meet applicable water quality standards. Water quality standards consist of designated uses, water quality criteria, an antidegradation policy and implementation procedures. Jenkins Creek is impaired due to exceedances of the state water quality criterion that protect whole body contact recreation category A.

Designated uses of Jenkins Creek*

- Warm Water Habitat (WWH)
- Whole Body Contact Recreation Category A (WBC-A)
- Secondary Contact Recreation (SCR)
- Human Health Protection (HHP)
- Irrigation (IRR)
- Livestock and Wildlife Protection (LWP)

*In addition to these specific uses, all waters of the state are protected by the general water quality criteria that are specified in the state's Water Quality Standards at 10 CSR 20-7.031(4).

Uses that are impaired

- Whole Body Contact Recreation – Category A

Criteria that apply

- Missouri's Water Quality Standards at 10 CSR 20-7.031(5)(C) and Table A state that for waters designated for whole body contact recreation category A, the *E. coli* bacteria count, measured as a geometric mean, shall not exceed 126 counts per 100 milliliters of water during the recreational season. The recreational season is defined as being from April 1 to October 31.

Water quality data and assessment

The department judges a stream to be impaired by bacteria if the water quality criterion for *E. coli* is exceeded in any of the last three years for which there is adequate data (minimum of five samples taken during the recreational season). High counts of *E. coli* are an indication of fecal contamination and an increased risk of pathogen-induced illness to humans.

Sufficient recreational season *E. coli* bacteria data for water body 3207 of Jenkins Creek was collected in 2010 and 2011. The geometric mean of these data exceeded the whole body contact category A criterion in 2010. For water body 3208 of Jenkins Creek, adequate data was available in 2012 and the geometric mean criterion was exceeded in that year.

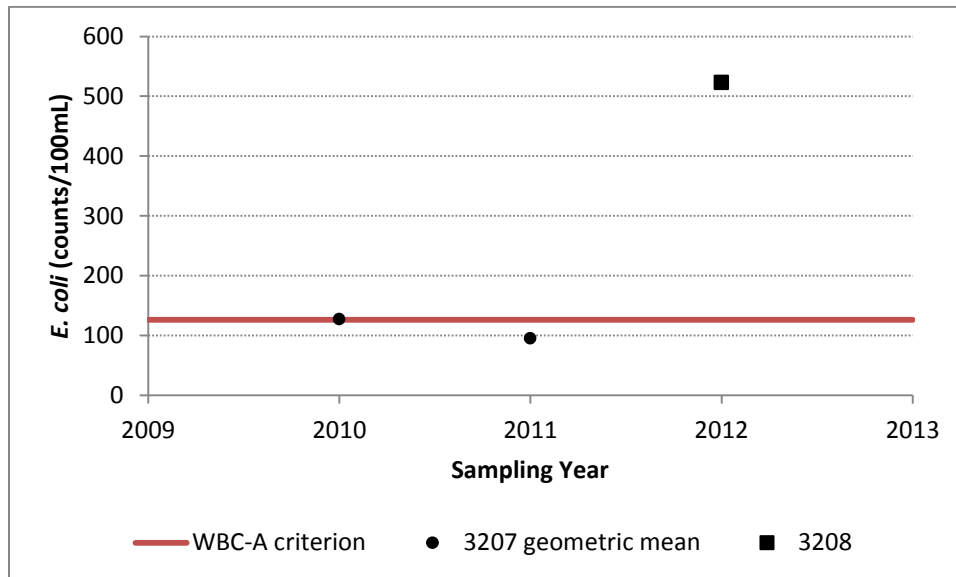
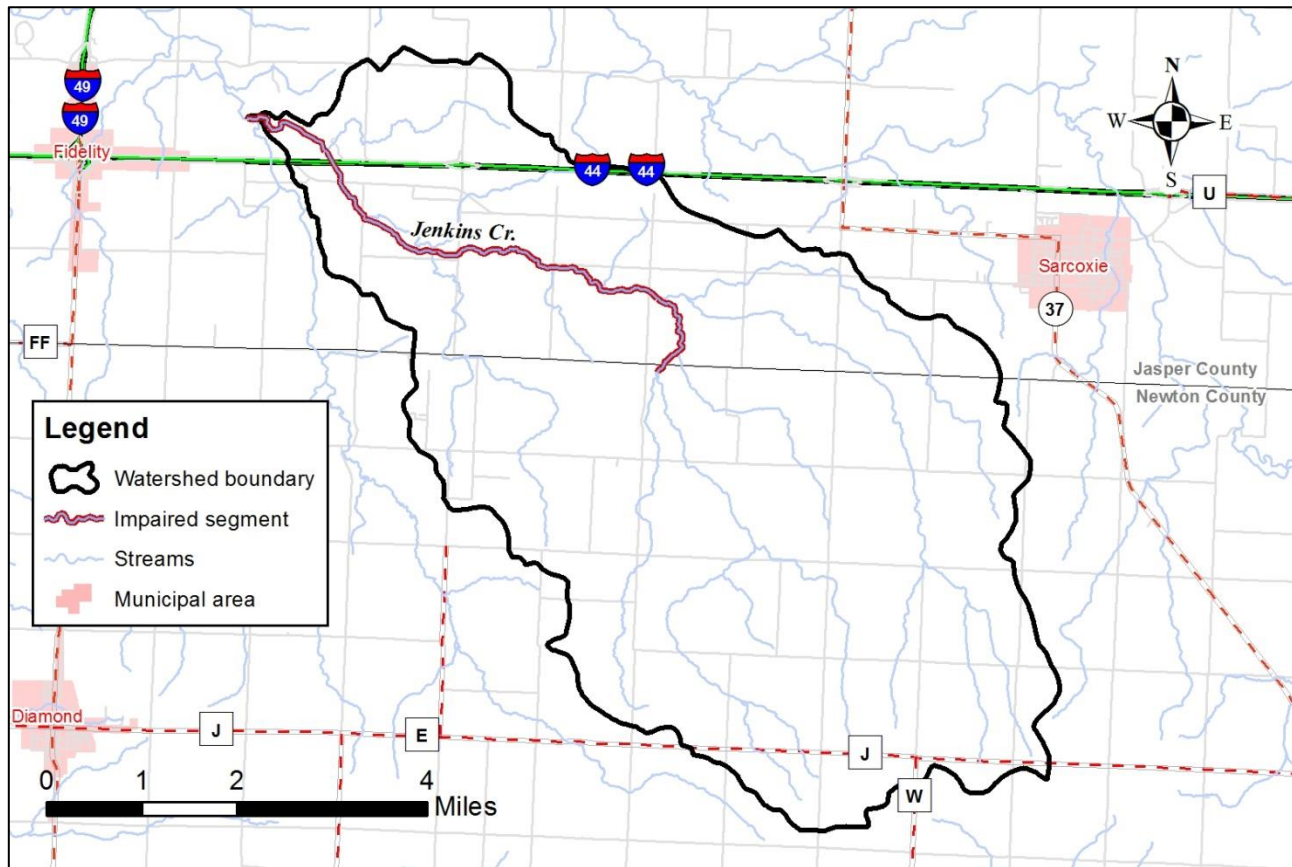


Figure. *E. coli* data for Jenkins Creek

TMDL for Jenkins Creek

The Jenkins Creek TMDL will calculate the maximum amount of each listed pollutant that the stream can receive and still meet water quality standards. The TMDL will also identify all potential or suspected pollutant sources in the watershed and distribute the allowable pollutant loads among those various sources. When developed, the Jenkins Creek TMDL will use the most current and available data. For this reason, the final TMDL may present information that differs from that contained in this information sheet.

Map Showing the Jenkins Creek Watershed



For more information call or write:

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